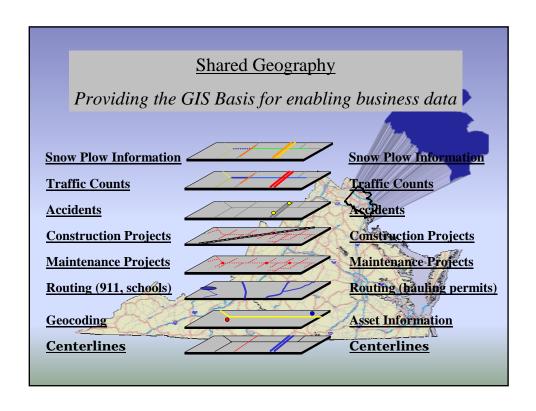
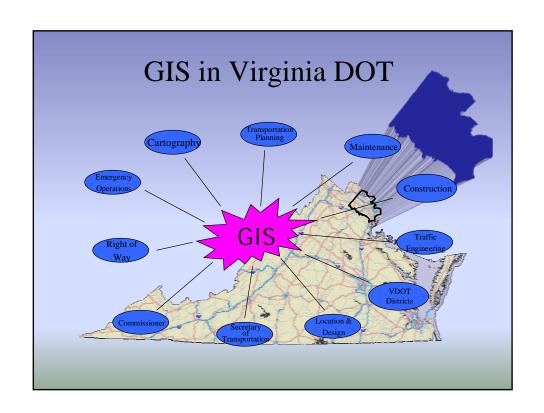
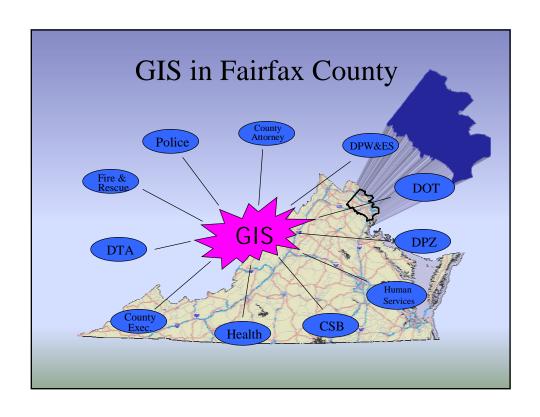


Long Term Goal: A centerline layer that supports all applications at both a state and local government level.

- Local personnel taking a greater roll in updating centerline data.
- Centerline data as a fundamental building block for coordination in business areas.
 (eg. Road construction projects.)







Roads in Virginia

- 70,328 Public Road Mileage (1999)
 - 56,595 VDOT maintained centerline miles
 - 3600 VDOT maintained centerline males in Fairfax County.
- 300 400 New streets added each year in Fairfax County
- X miles of privately maintained roads.

Data Sharing Issues

- Scale
- Maintenance
- Data Distribution
- Statewide policy
- Update Authority
- Network and Security Issues (If you get to this point your doing pretty good!)

Data Accuracy

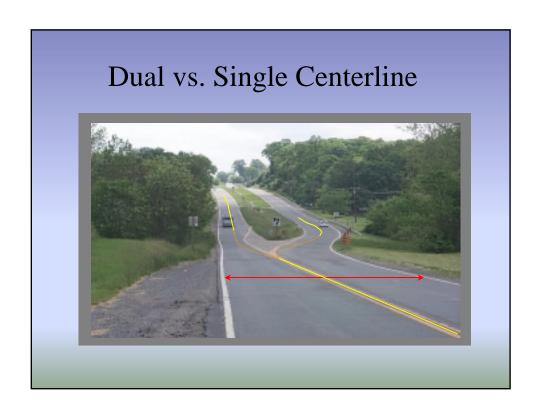
- Positional Accuracy A feature's relationship to its known position on the earth.
 - Most stringent requirement must be met for success.
 VDOT 2.7 meters RMS accuracy requirement (NSSDA)
 - GPS applications and ortho photography generate the most stringent requirements.
- Attribute Accuracy Percentage of attributes for which the information is complete & correct.
 - E911, pavement management, school bus routing, accident analysis.

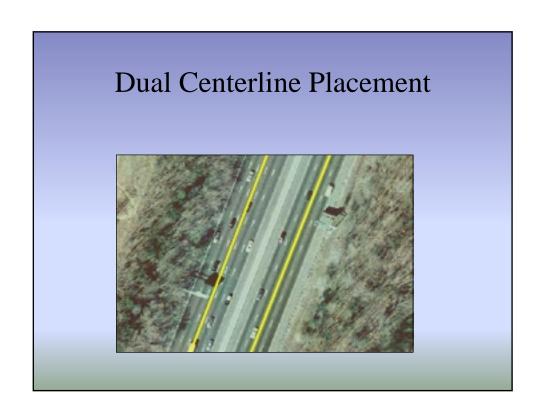
Data Currency

- Currency The degree to which features existing in the real world are digitally represented.
- E911, Schools, and inspectors have most stringent currency requirement.
- Goal: Geographic features and attributes 100% current within 30 days of development.

Technical Issue: Dual vs. Single Centerline

- Dual Centerlines for Interstates, Divided Primaries, and Divided High-volume Secondaries
- Single centerlines for all other roads





Levels of Data Sharing

- The higher the level the greater the degree of cooperation.
- Higher levels imply more organizational and technical hurdles to overcome.
- Commitment to share data is key
- Four basic levels

Levels of Data Sharing (cont.

- Level 1 Exchange of Information
- Level 2 Formal (written) agreement to share data
- Level 3 Incorporation of data by one agency.

Level 4 Dual Updates to Common Base

- Single data set that serves multiple organizations.
- Different elements updated by each organization.
- Easy user access to all transportation related information. (ex. Accident locations)
- Facilitates inter-agency cooperation.
- Taxpayers save \$\$\$.

